

Preliminary notes on a collection  
of plants of Dr. C. A. Mearns, 1892.  
Walter St. Evans.

1. *Aquilegia chrysanthia*. Gray. Proc. Amer. Acad. viii, 621  
San Luis Mts., Mexico, near boundary, June 2.
2. *Myosurus minimus* L. Spec. 284  
Lake Palomas, Minibes Valley, Mex. Apr. 14
3. *Lesquerella Fendleri* Wats. Proc. Amer. Acad. xxiii, 254  
Carrizalito Mts., Mex. Apr. 17 & 20.
4. L. *purpurea* Wats. Proc. Amer. Acad. xxiii, 253  
Big Hatchet Mt. N. Mex., May 18.
5. L. *gracilis* Wats. Proc. Amer. Acad. xxiii, 253  
Carrizalito Mts., Mex. Apr. 19.
6. *Streptanthus carinatus*, Wright in Pl. Wright II, 11.  
Camp 2, Emory's 5<sup>th</sup> monument. Apr. 2  
Upper Cor. monument Grant Co., N. Mex. May 3.
7. *Erysimum asperum* DC. Syst. 2: 305  
Carrizalito Mts. Apr. 20.
8. *Gerggia campanum* Gray, Pl. Wright 1: 9.  
Camp 2. Mar. 24; Upper Cor. monument  
Grant Co., N. Mex., May 1, 3, & 20.
9. *Sisymbrium caucasicum* Nutt. Gen. 2: 68.  
Carrizalito Mts., Apr. 19; Alaria Veijo, N.  
Mex. May 27; Upper cor. monument, Grant

(9 cont.) Co. N. Mex. Apr. 29 & May 1.

This plant resembles *S. canescens* except for the purplish sepals making the flowers appear anything but "yellow or white"

10 *Lepidium lasiocarpum* Nutt. J. S. G. Pl. 1: 115.

Camp 2, Emory's 5<sup>th</sup> monument, Apr. 2,  
Upper Cor. monument, Grant Co. N. Mex.

May 3;

Seems the same as Palmer's 42  
from Mexico 1880, which connects the  
var tenueps with the species.

11 *L. montanum* Nutt. Torrey Pl. 1: 116 + 669.

Dog Spring, Grant Co., N. Mex. May 27, 29.

12 *Nasturtium officinale* DC.

Alama Viejo N. Mex. May 27.

13 *Prosopis juliflora* DC. Prod. 2: 447.

Upper cor. monument Grant Co., N. M. May 3.

14 *Cassia bauhinoides* Gray Pl. Lindl. 2: 180.

Lake Palomas Mex. & Dog Spring  
Grant Co., N. Mex. May 26.

15. *C. wislizenii* Gray. Pl. Wright. 1: 60, 2: 50.

Dog Spring Grant Co., N. M. May 27.

16. *Dalea formosa* Torr. Ann. Lyc. N. Y. 2: 177.

Carizalito mts., Apr. 16 & 20, Upper Cor.  
Monument Grant Co. N. M. May 3, 5 & 7.

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17. D. *Fagonathra* Gray Pl. Fendl. 31.  
Carizalito Mts. Apr. 16.

18. *Calliantha conferta* Brum. in Gray. Pl. Wright 1: 63.  
Upper cor. monument, Grant Co., N. Mex.  
Apr. 30. - This plant has 4-6 pinnae instead of "one pair" yet it agrees  
with 212, Parry & Palmer (1876); 318, Palmer  
(1880); 762, S. B. S. & J. Parish (1881), and Pringle's  
1881 from Arizona all of which  
have been referred to this species.

20. *Astragalus triflorus* Gray, Pl. Wright. 2: 45.  
Upper cor. monument, Grant Co., N. Mex May 1;  
Carizalito Mts. Apr. 18.

21. A. *nuttallianus*, J. trichocarpus J. G. H. 1: 334  
Carizalito Mts. 85 ms west of El Paso, Tex.  
Apr. 18.

22. A. *mollissimum* Torr. Ann. Lyc. N.Y. 2: 178  
Dog Spring Grant Co., N.M. May 28.

23. A. *nuttallianus* DC. Prod. 2: 289.  
Dog Spring May 26

24. A. *nuttallianus* DC. Prod. 2: 289.  
Dog Spring May 26

25. A. *nuttallianus* DC. Prod. 2: 289.  
Dog Spring May 26.

26. *Medicago sativa* L.

Escaped from cultivation, Alamo  
Viejo Grant Co., N. M. May 27.

27. *Mimosa biuncifera* Benth. Pl. Hartw. 19.

Dog Spring May 26.

29. m. *grahamii* Gray, Pl. Wright. 2: 52.  
San Luis Mts. Mex. June 3.

The specimens, which are in flower only, approach *m. lemnmoni* in being rather pubescent but agrees with *m. grahamii* in the greater number of leaflets, some of which are becoming glabrate. In the type of *m. lemnmoni* (Lemmon 2692) the differences noted for our specimen are also noted, some of the fruiting specimens becoming glabrate and with as many as 14 pairs of leaflets.

30. *Vicia exigua* Nutt. Torr & Gray Pl. 1: 272.

Carrizalito Mts. Apr. 19.

31. *Rubus deliciosus* James, Long's Exped. 2: 193.

San Luis Mts. June 2.

32. *Fallugia paradoxa* Endl. Gen. Pl. 1246.

Upper cor. monument, Grant co., N. M. May 3,  
Dog Spring May 26; San Luis Mts. Mex.  
June 3.

33. *Eriogynia cæspitosa* Wats. Bot. Gaz. 15: 242.  
Big Hatchet mts, Grant Co., n.m. May 24.

34. *Cercocarpus parvifolius paucidentatus*  
Wats. Proc. Amer. Acad. 17: 353.  
Big Hatchet mts. Grant Co., n.m. May 18.

35. *Fendlera rupestris* Engelm. Pl. Wright 1: 77.  
Big Hatchet mts. May 17.

36. *Philadelphia meensis* L. sp.?  
Cor. monument Mex. 100 miles west of  
El Paso, Texas, Apr. 28; upper cor. monu-  
ment Grant Co, n.m. May 5.

A low straggling shrub with rig-  
id divaricate spinose branches: leaves  
crowded on the short branches, narrowly  
oblong, tapering a little to each end, 2-5"  
long  $\frac{1}{2}$ -2" wide; petiole distinct  $\frac{1}{3}$ " long  
or more, both leaf surfaces alike, green-  
ish, covered with strigose tuberculate  
hairs: flowers numerous, shortly pedic-  
illate; calyx lobes ovate, acuminate,  $\frac{1}{2}$ "  
long, covered on the back with hairs  
like the leaves, more or less ciliate on  
the margins; petals oblong, about 4"  
long, 2" to  $2\frac{1}{2}$ " wide, from a broad base,  
rose or emarginate at apex, rarely

36 (cont) entire and acuminate, pale yellow.  
style, short; stigma, thick, 4 lobed; capsule  
turgid, turbinate,  $1\frac{1}{2}$ " long. - Upper corner  
monument Grant Co., N. Mex., Apr. 28 to  
May 5.

This species is near P. serpyllifolius  
Gray, but it seems very distinct in  
many particulars. Its leaves are not  
3-nerved but usually nerveless. The  
upper and lower surfaces of the leaves  
are alike while in P. serpyllifolius the  
lower surface is white from the dense  
covering of hairs. In the type specimens  
of P. serpyllifolius the margins of the  
leaves are revolute, in this plant they  
are flat. The leaves of our plant are  
shortly but distinctly petioled while in  
the other they are described as "sub-  
petiolate". The flowers, which seem never  
to open widely, are much more abun-  
dant than on any specimen of P.  
serpyllifolius I have seen, and all  
are distinctly pedicilate. The calyx  
lobes are longer and more acute  
than in its congener. The petals are

36 (cont)  
usually narrower and longer than in *P. surplicifolius* and are almost uniformly emarginate. The capsule is loculicidally dehiscent almost to its base.

37. *Leptocaulis echinatus* Nutt  
Carrizalito Mts Apr. 20.

38. *Cymopterus montanus* Nutt  
Carrizalito Mts Apr. 17.

39. *Pseudocymopterus montanus* C.R.  
Big Hatchet Mts Grant Co. N.M., May 17.

40. *Daucus pusillus* Michx  
Upper cor. monument Grant Co. N.M. May 3.

41. *Polygala hemipteracarpa* Gray  
Dog Spring Grant Co., N.M. May 26-27.

42. *P. scoparia* A.T.B.K.

Carrizalito Mts Apr. 20.

This seems to be the form described by Dr. Gray as var. multicaulis. It differs however in color of flowers, which are rose color with purple veining and the caruncle instead of being "divided into two linear, <sup>lax</sup> lobes" is lanceolate & entire or emarginate and fully half as long as the hairy seed.

43. *P. lindheimeri* Gray.  
Big Hatchet Mts May 24

44. *Otelea angustifolia* Brach.  
Upper cor. monument Grant Co., May 5;  
Big Hatchet Mts. May 17 & 26.

45. *Polygala macradenia* Gray  
Upper cor. monument Grant Co. May 5-

46. *Fouquiera splendens* Engelm.  
Upper Cor. monument Grant Co. May 18  
Big Hatchet Mts, May 17; Mesquite  
Spring Mex. May 20.

47. *Linum rigidum* Pursh.  
Carrizalito Mts, Apr. 16; Upper cor. mon-  
ument, Grant Co. May 5.

48. *Gaura coccinea* Nutt.  
Carrizalito Mts Apr. 17.

49. *Öenothera sinuata grandiflora* Wats.  
El. Pass Tex. & Carrizalito Mts -

50. *ÖE. brachycarpa* Gray. or Wrightii?  
Big Hatchet Mts. May 24; Upper cor.  
monument Grant Co., May 5.  
(This seems to be the ÖE brachycarpa as in  
Coulter-Coulter. vol 2, no 1.) The flowers in  
our specimens show a very decided  
yellow and would hardly seem to

50<sup>(cont)</sup> go into a group designated as  
"petals purple" as they are only  
partly purple after drying.

51. *Rhus microphylla* Engelm.  
Carizalito Mts apr. 16; Upper cor.  
monument Grant Co., May 5+10; & dog  
Spring May 26.

52 *R. canadensis trilobata* Gray  
Dog Spring May 26.

53 *R. viridis* Lindl.  
Mt. Franklin, El Paso, Texas

54 *Sapindus marginatus* Willd.  
Carizalito ~~mt~~ Spring Apr. 15. Adams  
Uijo Grant Co., May 27; Dog Spring  
Grant Co. May 28.

55. *Krameria secundiflora* DC.  
Upper cor. monument Grant Co. N.M.

May 7; Dog Spring May 28.

56 *Garrya wrightii* Torr.  
El Paso Tex.; Big Hatchet Mts. Grant  
Co. N.M. May 18.

57 *Eschscholtzia mexicana* Greene  
Carizalito Mts. Apr. 17.

58 *Vitis arizonica* Engelm.  
Dog Spring, May 28; San Luis Mts June 2

59. *Argemone platyceras* Link & Otto  
Dog Spring May 26

60. *Larrea mexicana* Moric  
Upper cor. monument Grant Co. May 3

61. *Erodium texanum* Gray  
Carrizalito Mts Apr. 7.

62. *Berberis trifoliata* Moric.  
Carrizalito Spring Apr. 18

63. *Glossopetalon spinescens* Gray.  
Upper cor. monument Grant Co. May 7.

64. *Mortonia scabrella* Gray.  
Upper cor. monument .. May 3.

65. *Cucurbita foetidissima* HBK.  
Dog Spring May 27

66. *C. digitata* Gray  
White Water Grant Co., June 3

67. *Lythrum lanceolatum* Eee.  
Dog Spring May 29.

68. *Talinum lineare* HBK.  
Dog Spring May 29

69. *Mentzelia multiflora* Gray  
White Water Grant Co May 31.

70. *Rhamnus californica* Esch.  
San Luis Mts. Mexico June 2.

71. *Acer grandidentatum* Nutt. (same as above)

72. *Sidalcea malvaeflora* Gray ?  
Mesquite Spring Mex. May 16.  
This plant differs from the type in  
having more slender stems, smaller leaves  
with shorter petioles, radical leaves 6"-8"  
in diam. and petioles not exceeding  
2' in length; whole plant excepting the  
calyx nearly glabrous & glaucous.

73. *Abutilon favulum* Gray.  
Dog Spring May 26

74. *Sphaeralcea angustifolia* Spach  
Dog Spring & Alama Veijo N.M. May 29.

75. *S. incana dissecta* Gray.  
Carizalito Mts Apr. 18. Upper cor.  
monument Grant co. May 3, & Lake  
Palomas Mex. Apr.

76. *Hibiscus denudatus involucellatus* Gray  
Upper cor. monument Grant co. May 6.

77. *Sphaeralcea angustifolia* Spach ?  
Alama Veijo Grant co. May 27

78. *S. angustifolia cuspidata* Gray ?  
Alama Veijo May 27.

79. *Sphaeralcea* —  
Carizalito Mts Apr. 18.

80. *Sphaeralcea Emoryi* Torr?  
Big Hatchet Mts May 24.

81. *Opuntia macrocentra* Engelm  
White Water Grant Co., June 3.

82. *O. Engelmannii* Salm.  
Dog Spring May 26

83. *O. Filipendula* Engelm.  
Mesquite Spring Mex. May 16. Dog Spring  
May 28.

84. *O. arboreum* Engelm  
Whiterwater June 3; Comgallito Mts. Apr. 18.

85. *O. leptocaulis* DC  
Upper co. monument Grant Co. May 3.

86. *O. grahamii* Engelm  
El Paso Texas.

87. *Ceratoides fendleri* Engelm  
Upper co. monument Grant Co. May 2  
Apache Mts Grant Co. May 17.

88. *C. conoides* Engelm.  
Comgallito Mts Apr. 17; Big Hatchet  
Mts. Grant Co. May 17  
The spines show great variation  
being somewhat longer & stouter than  
usually given in the descriptions  
of this species.

89. *Mamillaria dasycantha* Engelm  
Big Hatchet mts. May 17.

118. *Thamnosma texanum* Don.  
Carizalito mts Apr. 20.

90. *Arbutus xalapensis texana* Gray  
San Luis mts June 3.

91. *Phacelia congesta* Hook.  
Camp 2, Emory's 5<sup>th</sup> monument, Corriall-  
ilo mts Apr. 17; Upper cor. monument  
Grant Co. May 3.

92. *P. ~~congesta~~ crenulata* Torr  
Upper cor. monument May 3

93. *Gilia longiflora* Don.  
Upper cor. monument Grant Co. May 3;  
Flowers lilac, younger portions of the  
plant canescens as is the inside  
of the calyx lobes.

94. *G. rigidula acerosa* Gray.  
Carizalito mts Apr. 17.

95. *G. inconspicua* Dougl.  
Carizalito mts Apr. 17.

96. *G. filifolia diffusa* Gray  
Dog Spring May 27.

97. *Gilia floccosa* Gray?

Dog Spring May 27

98 *Linaria canadensis* Dumort

Camp 2' Emory's 5<sup>th</sup> monument Apr. 6.

99 *Salvia henryi* Gray

Upper cor. monument Grant Co., May 7

100 *Scutellaria wrightii* Gray

Dog Spring May 26.

Some of the leaves are compound.

101 *Pentstemon acuminatus* Dougl.

Camargallo Mts Apr. 18

102 *P. lanceolatus* Benth.

Dog Spring May 26.

Our plant seems to be this Mexican species. The flowers are orange red, spotted with darker red. Some are over "one" inch in length. The inflorescence is very glandular.

103 *Mimulus glabratus* OTOK

San Luis Mts. June 3.

104 *Castilleja integra* Gray.

Camargallo Mts Apr. 17, 18 & 20; Upper cor. monument Grant Co., May 3-10.

This may be the *C. gloriosa* of Britton which I have not seen.

105 *C. sessiliflora* Pursh  
Carizallito Mts Apr. 18; upper cor. mon-  
ument Grant Co. May 1.

106. *Antirrhinum mauraoides* Gray  
Dog Spring May 26.

107 *Chilopsis saligna* Don  
Dog Spring May 27

108 *Verbena bipinnata* Nutt  
Big Hatchet Mts May 24; Upper  
cor. monument May 3.

109 *Verbena bipinnatifida* Nutt?  
Carizallito Mts Apr. 17.  
This form approaches *V. aubletia* in the  
color of its flowers and bracts shorter  
than the calyx but the leaves are  
more dissected than in that species.

110. *Echinospermum redowskii* Lohm. var.  
Camp & Emory's 5<sup>th</sup> monument Apr. 6  
Carizallito Mts Apr. 17.

111. *Krantzchia jacquinii* Gray.  
Carizallito Mts Apr. 17; Upper cor.  
monument Grant Co. May 5.

112 *Oenothera biaristis* DC.  
Big Hatchet Mts May 17.  
Young but probably this species.

113. *Anisacanthus thurberi* Gray.  
Big Hatchet mts May 18; Dog Spring May 26

114. *Gilia microphylla* Gray.  
Dog Spring May 26

\*115. *Evolvulus alsinoides* L.  
Carrizalito Mts Apr. 16.

116. *Cowolvolulus incanus* Vahl.  
Carrizalito Mts Apr. 17

117. *Anisonia palmeri* Gray.  
Cañon near Upper cor. monument, Grant Co.  
May 1, Carrizalito Mts Apr. 17.

119. *Chamaesaracha cordida* Gray?  
Carrizalito Mts apr. 17; Upper cor. mon-  
ument Grant Co. N.M. May 5-

120. *Physalis hederacea* Gray  
summit Big Hatchet mts May 18.

121. *Solanum nigrum* L.  
Dog Spring May 28

122. *S. elaeagnifolium* Cav.  
Alama Veijo May 27, Dog Spring May 29.

123. *Asclepias nummularia* Torr.  
Dog Spring May 21.

124. *A. tuberosa*, L  
San Luis Mts June 3.

125. *Asclepiodora decumbens* Gray.  
Dog Spring, May 28; Carrizalito Mts  
Apr. 17; White Water, Grant Co., June 3.

126. *Plantago patagonica* Jacq. var  
Camp 2, Emory's 3<sup>rd</sup> monument, May 28;  
Carrizalito Mts, Apr. 20.

127. *Fraxinus cuspidata* Torr.  
Summit Big Hatchet Mts May 18.

128. *Coldenia canescens* DC.  
Upper cor. monument Grant Co. May 5.

129. *Apolobappus spinulosus* DC.  
Carrizalito mts Apr. 17; Upper cor-  
monument May, 5; Alama Veijo May 27.

130. *Zinnia grandiflora* Nutt.  
Dog Spring May 23

131. *Z. pumila* Gray -  
Upper cor. monument May 7-

132. *Melampodium cinereum* DC.  
Carrizalito Mts, Apr. 20. Upper cor. mon. May 5.

133. *Stephanomeria runcinata* Nutt.  
Dog Spring May 26.

134 *Baileya multiradiata* Star & Gray  
Carrizalito Mts. Apr. 16; Dog Spring May 26.

135. *Petelia nana* Gray.  
Carrizalito Mts. Apr. 15; Upper corner  
monument May 3.

136 *Berlandiera lyrata* Benth.  
Doyle's Ranch Grant Co., May 10;  
Dog Spring " May 27.

137 *Gaillardia pulchella* Tong.  
Alama Veijo May 27. White Water June 3.

138 *Kuhnia rosmaninifolia* Vahl.  
Alama Veijo, Grant Co., May 27.

139. *Iris angustifolia* DC.  
Dog Spring May 26; White Water, May 31.

140. *Senecio douglasii* DC.  
Camp 2. Emory's 5<sup>th</sup> monument Apr. 6;  
Carrizalito Mts, Apr. 20; Upper corner  
monument, May 3; Dog Spring May 26.

141. *S. aurus* L. var.  
Sycamore creek, Dog Spring May 27.

142. *Actinella odorata* Gray.  
Camp 2. Emory's 5<sup>th</sup> monument Apr. 6.  
Mesquite Spring Mexico May 16; Dog  
spring Grant Co., N.M. May 26.

143. *Hymenathrix tenuiori* Gray.  
Camp 2. Emory's 3<sup>rd</sup> monument Mar 24,  
Upper cor. monument Grant Co., May 1.

144. *H. acerosum* Gray -  
Carrizalito Mts. Apr. 16; Upper cor.  
monument May 5.

145. *Bahia absinthifolia dealbata* Gray  
Upper cor. monument May 5.

146. *Baccharis pteronioides* DC.  
Upper cor. monument May 20,  
Dog Spring May 26.

147. *Aster ericacefolius* Rothrock  
Camp 2 Emory's 3<sup>rd</sup> monument Apr. 6;  
Carrizalito Mts Apr. 17; Dog Spring May 28.

148. *Erigeron divergens* Torr & Gray.  
Carrizalito Mts. Apr. 20, Upper cor.  
monument Grant Co. May 3.

149. *Malacothrix fendleri* Gray.  
Upper cor. monument May 1.

150. *Poophylloides scoparium* Gray.  
Upper cor. monument. May 3.

151. *Sonchus asper* Vill.  
Alama Viijo Grant Co May 27.

152. *Cnicus ochrocentrus* Gray.  
Carrizalito Mts, Apr. 17; Big Hatchet Mts, May 17.

153. *Euphorbia serpens* HBK.  
Carrizalejos Mts Apr. 16.

154. *E. fendleri chaetocalyx* Boiss.  
Upper corner monument Grant Co. N.M. May 3.

155. *E. montana gracilior* Engelm.  
Big Hatchet Mts, Grant Co., N.M. May 17 and  
San Luis Mts. Mex. June 2. (Compare with *E. pringlei*)

156. *Iragia stylaris* Muell.  
Upper cor. monument Grant Co. May 7.

157. *Jatropha macrorhiza* Bent.  
Mesquite Spring, Mex. May 16, Dog Spring  
Grant Co. N. Mex. May 26.

158. *Croton gracilis* Muell.  
Upper cor. monument Grant Co. May 5.

159. *C. corymbulosis* Engelm.  
Upper cor. monument Grant Co. May 5, White  
Water, June 1, Big Hatchet mts. n Mex. May 24

160. *Froelichia gracilis* Moq.  
Dog Spring Grant Co. N. Mex May 26.

161. *Gomphrena caespitosa* Torr.  
Carrizalejos mts, Apr. 16, Dog Spring Grant  
Co. N. Mex. May 26, White Water Grant Co. June 1.

162. *Eriogonum abertianum* Torr.  
Big Hatchet mts. N. Mex. May 19.

163. *E. rotundifolium* Bent.  
Dog Spring Grant Co. N. Mex. May 26.

164. *Allionia incarnata* L.  
Carrizalito Mts, N. Mex. Apr. 17.

165. *Abronia turbinata* Torr.  
Camp 2. Engoy's 5<sup>th</sup> monument N. Mex

"166. *Anemopsis californica* Hook.  
Lake Palomas Mex. Apr. 14, Dog Spring N.M.  
May 29, Alama Veijo Grant Co. May 27,  
Mesquite Spring Mex, May 16.

167. *Juglans rupestris* Engelm.  
Dog Spring Grant Co, May 26, a tree  
30 feet high &  $\frac{1}{2}$  feet in diam.

168. *Morus microphylla* Buckley, Phil. Acad. Sci 1862 p. 8.  
Upper cor. monument May 3 and Dog Spring  
Grant Co, N. Mex. May 29.

169. *Celtis occidentalis*  
Dog Spring Grant Co, May 26, Upper cor.  
monument Grant Co, May 1.

170. *Platanus racemosa* Nutt.  
Dog Spring N. Mex May 26.

"171. *Phoradendron flavescens* Nutt.  
Trinity River Texas Jan. 29.

172. *P. bolleanum* Eichler. on Juniperus sp.  
Carrizalito Mts, Apr. 19.  
This is the same as *P. pauciflorum* Torr. reduced  
by Dr. Watson in Bot. Cal. ii p. 105.

173 *Rumex salicifolius* Wein.  
White Water Grant co., N. Mex. June 3.

174 *Chenopodium album* L.  
Alama Veijo N. Mex. May 27.

175. *Populus angustifolia* James.  
Alama Veijo, Grant Co. N. M. May 27 and  
Dog Spring " " " " 29.

177 *Quercus hypoleuca* Engelm.  
San Luis Mts., Mex. June 2.

178 *Q. reticulata* HBK.  
San Luis Mts Mex June 2.

179. *Q. oblongifolia* Torr ?  
Dog Spring May 27

180 *Q. dumosa* var?  
Upper cor. monument Grant co. May 5

181 *Q. undulata wrightii* Engelm.  
Carrizales Mts n. m. Apr. 16.

182 *Q. undulata* var-?  
Big Hatchet Mts. N. M. May 18.

179<sup>a</sup> *Q. oblongifolia* Torr?  
Doubtfully referred here. Leaves 8"-12" long  
and 4"-6" with cordate bases.

183. *Salix nigra* Marsh. by Babb!  
Dog Spring Grant Co. N. M. May 29. A  
tree 25 ft high & 1 ft in diam.

184. *Salix nigra* Marsh. by Babb -  
Lake Palomas, Minibas Valley Mex.

Apr. 14.

Babb says all the specimens are  
forms of *S. nigra* that he is not willing  
to separate at present altho he may  
do so later.

185 *Allium reticulatum* Fraser  
Carrizales Mts., Apr. 16, Upper cor.  
monument Grant Co. N.M. ~~Apr~~ May 5.

186. *Nolina texana* Watson  
San Luis Mts. Mex. June 3.

187 *Dasylinion texanum* Scheele ?  
Big Hatchet Mts. n. Mex. May 17.

Probably this sp. Material insufficient

188 *Yucca baccata* Torr.

Carrizales Mts. Apr. 15; Apache Mts.  
Grant Co. N.M. May 4, Upper cor. monu-  
ment Grant Co. N.M. May 11.

Referred here tentatively. The flowers  
are larger. Stamens shorter than the  
ovary and the purplish bracts are  
large and conspicuous.

189. *Potamogeton pectinatus* L.  
Lake Palomas, Minibro Valley Mex. Apr. 14.

190. *Scirpus olneyi* Gray.  
Dog Spring Grant Co. N. Mex. May 29.

" 191. S. *luridus* Vahl?  
Lake Palomas Mex. Apr. 14.

192. *Eleocharis palustris* R.Br.  
Lake Palomas, Mex. Apr. 14, Mesquite  
Springs - May 16.

Grasses - Determined by Dr Vasey.

193. *Sporobolus arioides* Torr.  
Grant Co. N. Mex May

" 194. *Hilaria mutica* Bent  
Upper cor. monument Grant Co. May 3

" 195. *distichlis maritima* Raf.  
Mesquite Spring Mex May 16.

196. *Dactylis glomerata* L.  
Dog Spring, Grant Co. May 28,  
foliage rougher & thicker than in northern forms.

" 197. *Festuca tenera* Willd.  
Camp 2, Emory's 5<sup>th</sup> monument and  
Carizalito mts. ~~May~~ Apr. 17. common

198. *Iridia pulchella* HBK.  
Camp 2. Emory's 5<sup>th</sup> monument Apr. 6.

199. *Setaria caudata*  
Carizalito mts Apr. 19.

200. *Poa bigelovii* Voss.  
Upper cor. monument Grant Co. May 3.

\*201 *Panicum lacanarium* Torr.  
Upper cor. monument May 3

202 *Bouteloua racemosa* Lag.  
Upper cor. mont. May 3

203 *Aristida dispersa*  
~~dog~~ Upper. cor. mont. May 3.

204 *Agrostis vrticillata* Vile.  
Dog Spring Grant Co. May 28 and  
Mesquite Spring Mex. May 16.

\*205. *Muhlenbergia mexicana* Trin.  
Upper cor. monument Grant co. May 3.

206. *M. distichophylla* Munro.  
Upper. cor. monument May 3.

207. *Eragrostis reptans* Nees.  
Upper. cor. monument Grant co. May 3.

\*208 *E. lugens* Nees.  
Upper cor. monument May 3

209 *Elymus sitianus* Schult.  
Upper cor. monument Grant Co. N.M. May 3,  
Carizalito mts, Apr. 17, and Big-  
Hatchet mts. Grant co. N.M. May 18.

210. *Pinus ponderosa* Dougl.  
San Luis mts., June 3. A tree  
100 ft high & 3 ft in diam.

211. *P. chihuahuana* Engelm.  
San Luis mts. June 3. tree 75-100 ft  
high 2-3 feet in diam.

212 *P. edulis* Engelm.  
Big Hatchet mts. N. Mex. May 17.

213 *Pseudotsuga douglasii* Carr.  
San Luis mts June 2

214 *Cupressus arizonica* Greene  
San Luis mts June 2.

215. *Juniperus pachyphlla* Torr.  
Big Hatchet mts, N.M. May 24, San  
Luis mts, June 2, Dog Spring Grant Co.  
May 26, (Upper cor. monument) Grant Co. May 6  
This must be some other species

216 *J. occidentalis* Hook.  
Carrizalito mts n.m. Apr. 20.

217 *Ephedra trifurca*, Torr. stamineate fls  
Carrizalito mts, Apr. 16, pistilate  
Upper cor. monument Grant Co. May 3.

218 *Notholaena hookeri* Eaton  
Camp 2, Emory's 5<sup>th</sup> monument Apr 10 2,  
Carrizalito Mts apr. 19 and upper cor.  
monument Grant Co. May 3. common

219. *Pellaea wrightiana* Hook.  
Carizellos Mts n.m. Apr. 17, Camp 2,  
Emory's 5<sup>th</sup> monument, Apr. 6, and upper  
cor. monument n.m. May 3. common

220. *Notholaena sinuata* Kaulf.  
Carizellos Mts. n.m. Apr. 16, Upper cor.  
monument Grant Co. May 10.

221. *Chileanthes lindheimeri* Hook.  
Camp 2, Emory's 5<sup>th</sup> monument Apr. 2.

222. *C. lanuginosa* Nutt.  
Upper cor. monument May 3.

223. *C. eatoni* Baker.  
Upper cor. monument May 10.

224. *C. <sup>minio</sup>macrophylla* Desf.  
Big Hatchet Mts, Grant Co. May 24.

225. *Selaginella rupestris* Spring  
Big Hatchet Mts, May 18, & Dog Spring  
Grant Co. N. M. May 19.

226. *Monoclea barbata* (L) Fr.  
Big Hatchet Mts n.m. May 17.

227. *Ervinea furfuracea* (L) Mann.  
Big Hatchet Mts. Grant Co. n.m. May 17.